

GenCore version 4.5  
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OM nucleic - nucleic search, using sw model

Run on: January 18, 2002, 10:14:33 ; Search time 211.29 Seconds  
(without alignments)  
73.036 Million cell updates/sec

Title:	US-09-651-846-1
Perfect score:	18
Sequence:	1 gacgctgtggtgccccat 18

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

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Searched:      930621 seqs, 428662619 residues
Total number of hits satisfying chosen parameters: 1026190
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Minimum DB seq length: 0
Maximum DB seq length: 60

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Post-processing: Minimum Match = 0.8

Maximum Match: 100%  
Listing first 45 summaries

Database :

1:	/SID2/gcgdata/genseq/genseqn/NA1980.DAT.*
2:	/SID2/gcgdata/genseq/genseqn/NA1981.DAT.*
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22:	/SID2/gcgdata/genseq/genseqn/NA2001.DAT.*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

Result	No.	Score	Query Match	length	DB	ID	Description
C	1	18	100.0	35	20	AAK36573	PCR primer for human
C	2	18	100.0	35	22	AAK00266	LPA receptor-related
C	3	13.2	73.3	19	18	AAT96666	Human TUB gene 3'
C	4	13.2	73.3	19	21	AAA94661	Human TUBP1 gene P
C	5	13.2	73.3	30	20	AAZ25676	Factor IX mutageni
C	6	13.2	73.3	30	20	AAZ25680	Factor IX mutageni
C	7	13.2	73.3	48	21	AAA46997	Oligonucleotide us
C	8	12.8	71.1	31	21	AAZ58151	Human FASr-1 gene
C	9	12.8	71.1	33	20	AAK58995	Primer used to amp
C	10	12.8	71.1	33	20	AAK58994	Primer used to amp
C	11	12.4	68.9	27	20	AAK80155	Human Delta-1/4-gal

C	12	12.4	68.9	27	21	AAAS3308	PCR primer hcp-65D
	13	12.4	68.9	36	17	AAT37043	Tobacco mosaic virus
	14	12.2	67.8	17	20	AAV93456	Human B-raf substrate
	15	12.2	67.8	20	17	AAT12422	Antiviral phosphor
	16	12.2	67.8	20	17	AAT12426	Antiviral phosphor
	17	12.2	67.8	20	17	AAT12430	Antiviral phosphor
	18	12.2	67.8	20	17	AAT12431	Antiviral phosphor
C	19	12.2	67.8	20	17	AAT12436	Antiviral phosphor
	20	12.2	67.8	36	22	AAE24433	T reese cellbiohob
	21	12.2	67.8	36	22	AAE24434	T reese cellbiohob
	22	12.2	67.8	51	22	AAH89385	Human structural p
	23	11.8	65.6	16	17	AAT12432	Antiviral phosphor
	24	11.8	65.6	19	20	AAZ25440	Human PD2 antisens
	25	11.8	65.6	20	17	AAT12429	Antiviral phosphor
	26	11.8	65.6	21	18	AAT96380	Hepatitis GB virus
	27	11.8	65.6	21	18	AAT76851	Primer for HGBV NT
	28	11.8	65.6	21	22	AAE75435	Codon-optimised HP
C	29	11.8	65.6	21	22	AAE75436	Codon-optimised HP
	30	11.8	65.6	25	15	AAO54748	Estein-Barr virus
C	31	11.8	65.6	27	19	AAV60330	PCR primer R0097 u
	32	11.8	65.6	28	21	AAA40094	Human lysosphat
	33	11.8	65.6	29	18	AAT85072	Bacteriophage m13m
	34	11.8	65.6	32	22	AAH25021	PCR primer used to
	35	11.8	65.6	35	22	AAV00372	Bacillus thuringie
	36	11.8	65.6	35	22	AAE73290	Oligonucleotide #8
C	37	11.8	65.6	36	20	AAAG9469	C12-9 PCR primer f
	38	11.8	65.6	36	22	AAE29275	Primer for cdna en
C	39	11.8	65.6	38	21	AAZ34639	Granulocyte colony
	40	11.8	65.6	39	14	AAQ37427	Primer -21NO10BKNE
	41	11.8	65.6	45	17	AAT15672	Reverse-Frame HGV
	42	11.8	65.6	45	17	AAT08869	Primer GE-3F for H
	43	11.8	65.6	45	19	AAV66128	PCR primer GE-3F u
	44	11.8	65.6	45	19	AAV66087	PCR primer GE-3F D
C	45	11.8	65.6	45	19	AAV22787	Capture/amplificat

## ALIGNMENTS

RESULT	1
AA36573/c	
ID	AA36573 standard; DNA; 35 BP.

AC AAX36573;

DT 07-JUL-1999 (first entry)

PCR primer for human EDG-1 coding sequence

inverse agonist; allolsteric modulator; tyrosine phosphorylation; receptor

LPA signalling mediated disease; cellular apoptosis; PCR primer; ss.

synthetic.

AA  
PN W09919513-A2

22-APR-1999.

PF 09-OCT-1998; 98WO-US21315.

PR 10-OCT-1997; 97US-0061572.

PA (LXRB-) LXR BIOTECHNOLOGY INC.

PI Erikson J, Goddard JG, Kiefer M, xv

DR WPI; 1999-277658/23.

Identifying and mediated diseases such as cellular apoptosis

PS Example 1; Page 30; 63pp; English.

CC This sequence is a PCR primer for DNA encoding human EDG-1.  
 CC The invention relates to methods of detecting (ant)agonist, inverse  
 CC agonist or allosteric modulators of the lysophosphatidic acid receptors  
 CC EDG-1, EDG-2, EDG-3, EDG-4, EDG-5, and PGP-24. The methods are used to  
 CC identify (ant)agonists and allosteric modulator of the lysophosphatidic  
 CC acid (LPA) EDG2 receptor, e.g. to treat LPA signalling mediated disease  
 CC such as cellular apoptosis.

Sequence 35 BP; 5 A; 15 C; 12 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 20; Length 35;  
 Best Local Similarity 100.0%; Pred. No. 12;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 gacgctgtgtggcccat 18  
 DB 32 GACGCTGTGTGGCCCAT 15

# RESULT 2

AAS0262/C

ID AAS00262 standard; DNA; 35 BP.

AC AAS00262;

DE -11-MAY-2001 (first entry)

XX LPA receptor-related primer #1.

KW LPA receptor; EDG-2; lysophosphatidic acid; phospholipid; tumour;

KW cell signalling; MAP kinase; LPA modulator; neurodegenerative disease;

KW Alzheimer's disease; Parkinson's disease; neuron damage; apoptosis;

KW ischaemic heart disease; viral; HIV; inflammatory bowel disease;

KW organ transplant; ss.

XX Unidentified.

OS WO200112838-A2.

XX 22-FEB-2001.

XX 11-AUG-2000; 2000WO-US22101.

XX 18-AUG-1999; 99US-0376399.

XX (ATAI-) ATRIRGIN TECHNOLOGIES INC.

XX Erickson J, Goddard JG, Kiefer M, Picker D;

XX WPI; 2001-226550/23.

XX Modulating activity of a lysophosphatidic acid or its receptor for

XX treating tumours, viral diseases, involves introducing to LPA or its

XX receptor a composition containing diol, epoxide or phosphate compound

XX Disclosure; Page 87; 89pp; English.

XX The sequence represents the LPA receptor-related primer #1 used during

XX analysis of lysophosphatidic acid receptor (LPA), EDG-2. The sequence is

XX given in the specification but no further information is given. LPA is a

XX phospholipid found in a variety of plant and animal products. EDG-2 is

XX involved in cell signalling through activation of a MAP kinase cascade

XX dependent receptor. Modulating the activity of a lysophosphatidic acid

XX (LPA) or LPA receptor (EDG-2) involves introducing a composition

XX comprising LPA modulators to the LPA or receptor. The method is useful

XX for treating diseases characterised by slowed growth or repair of

XX neuronal cells, neurodegenerative diseases, such as Alzheimer's disease,

XX Parkinson's disease, and acute neuron damage, for modulating apoptotic

XX pathways and treating ischaemic heart disease, tumours, viral diseases

CC bowel disease, and rejection of organ transplants.

XX Sequence 35 BP; 5 A; 15 C; 12 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 22; Length 35;  
 Best Local Similarity 100.0%; Pred. No. 12;  
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 gacgctgtgtggcccat 18  
 DB 32 GACGCTGTGTGGCCCAT 15

# RESULT 3

AAT96666/C

ID AAT96666 standard; cDNA; 19 BP.

AC AAT96666;

DE 27-APR-1998 (first entry)

XX Human TUB gene 3' end primer for radiation hybrid mapping.

KW TULP; tub gene; human; sensory neuron; neurosensory defect;

KW cochlear degeneration; hearing loss; deafness; retinal dystrophy;

KW retinitis pigmentosa; combined rod cone dystrophy; obesity;

KW animal model; transgenic animal; therapy; diagnosis; PCR; primer;

XX ss.

OS Synthetic.

XX Homo sapiens.

XX WO9738004-A1.

XX 16-OCT-1997.

XX 10-APR-1997; 97WO-US05903.

XX 17-SEP-1996; 96US-0714991.

XX 10-APR-1996; 96US-0630592.

XX 22-AUG-1996; 96US-0701380.

XX 04-SEP-1996; 96US-0706292.

XX (JACK-) JACKSON LAB.

XX (SEOU-) SEQUANA THERAPEUTICS INC.

XX Neggert J, Nishina P, Noben-Trauth K, North M;

XX WPI; 1997-512642/47.

XX Mammalian TULP protein - used for detecting pre-disposition to

XX neuro-sensory defects

XX Disclosure; Page 35; 89pp; English.

XX PCR primers (AAT96663 and AAT96664) were designed for the 3' non-coding

XX region of the human TUB gene (see AAT96639) and were used in

XX radiation hybrid mapping, generating a product of 221 bp. Another

XX primer pair (see AAT96661-62) amplified the 5' region of TUB, and a

XX further pair (see AAT96665-66) amplified TULP cDNA (see AAT96642).

XX TUB and TULP are novel members of the mammalian TULP gene family

XX associated with various defects in sensory neurons such as

XX cochlear defects, retinitis pigmentosa and combined rod-cone

XX dystrophy.

XX Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 other;

Query Match 73.3%; Score 13.2; DB 18; Length 19;

Best Local Similarity 83.3%; Pred. No. 2e+03;

Matches 15; Conservative 0; Mismatches 3; Indels 0; Gaps 0;



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OM nucleic - nucleic search, using sw model

Run on: January 18, 2002, 13:18:39 ; Search time 211.29 Seconds  
(without alignments)  
73.036 Million cell updates/sec

Title: US-09-651-846-2

Sequence: 1 gctgtgtggcccatgt 18

Scoring table: IDENTITY\_NJC

Searched: 930621 seqs, 428662619 residues

Total number of hits satisfying chosen parameters: 1026190

Maximum DB seq length: 60

post-processing:	Minimum Match	0%
	Maximum Match	100%

Listing first 45 summaries

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1: /stps3/geneseq/geneseq/NA1980 DAT.*
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4:	/SID22/gcgdata/gemeseq/gemeseqn/NA1963.DAT *
5:	/SID22/gcgdata/gemeseq/gemeseqn/NA1964.DAT *
6:	/SID22/gcgdata/gemeseq/gemeseqn/NA1965.DAT *
7:	/SID22/gcgdata/gemeseq/gemeseqn/NA1966.DAT *
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19:	/SID22/gcgdata/gemeseq/gemeseqn/NA1978.DAT *
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21:	/SID22/gcgdata/gemeseq/gemeseqn/NA2000.DAT *
22:	/SID22/gcgdata/gemeseq/gemeseqn/NA2001.DAT *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query	Length	DB	ID	Description
C 1	18	100.0	35	20*	AA36573	PCR primer for human
C 2	18	100.0	35	22	AA500262	LPA receptor-related
C 3	14.8	82.2	31	21	AA58151	Human FAST-1 gene
C 4	13.8	76.7	27	20	AA480155	Human beta-1,4-gal
C 5	13.8	76.7	27	21	AA453308	PCR primer hgt-65S
C 6	13.4	74.4	31	19	AA284442	Lactoferricin B-mR
C 7	13.2	73.3	45	19	AA227877	Capture/amplification
C 8	13.2	73.3	45	19	AA220737	Epstein Barr virus
C 9	13.2	73.3	48	21	AA465937	Oligonucleotide used
C 10	12.8	71.1	21	18	AA796380	Hepatitis GB virus
C 11	12.8	71.1	21	18	AA76851	Primer for HGBV N

XX	12	12.8	71.1	22	21	AAD01161	Human orphan G protein coupled receptor 1
XX	13	12.8	71.1	29	18	AAT75543	Factor IX mutagenesis
XX	14	12.8	71.1	30	20	AAZ25676	Factor IX mutagenesis
XX	15	12.8	71.1	30	20	AAZ25680	Mitochondrial protein
XX	16	12.8	71.1	33	21	AAC68514	5' primer for epididymal testis
C 17	12.4	68.9	27	18	AAT90893	Human osteocalcin	
C 18	12.4	68.9	31	19	AAV45332	Tobacco mosaic virus coat protein	
C 19	12.4	68.9	36	17	AAT37043	Mouse REXANK PCR product	
C 20	12.4	68.9	37	21	AAZ94801	PCR primer P3M13-	
C 21	12.4	68.9	38	21	AAZ60175	Human cystatin C gene	
C 22	12.2	67.8	20	21	AAA39285	Human neoptilin mRNA	
C 23	12.2	67.8	20	21	AAZ31460	Human cystatin C gene	
C 24	12.2	67.8	20	21	AAE76793	Antisense IGFBP-5	
C 25	12.2	67.8	20	22	AAA91249	PCR primer used to amplify	
C 26	12.2	67.8	22	22	AAK35965	Human FasL, Fas ligand	
C 27	12.2	67.8	22	22	AAK08457	Antisense primer for FasL	
C 28	12.2	67.8	24	19	AAV31198	Oligonucleotide 82	
C 29	12.2	67.8	27	18	AAE65526	c-mpl receptor agonist	
C 30	12.2	67.8	27	18	AAT65936	Primer 82-5' for c-mpl	
C 31	12.2	67.8	27	19	AAV55438	Mutagenic primer #3	
C 32	12.2	67.8	27	19	AAV53126	PCR primer #3 used	
C 33	12.2	67.8	27	22	AAAF31126	5' PCR primer used	
C 34	12.2	67.8	28	14	AAO34846	ubiquitin conjugate	
C 35	12.2	67.8	29	19	AAV42718	ubiquitin conjugate	
C 36	12.2	67.8	32	17	AAT37812	Primer used for amplification	
C 37	12.2	67.8	32	18	AAT78829	Human ubiquitin conjugate	
C 38	12.2	67.8	32	20	AAZ25321	5' PCR primer used	
C 39	12.2	67.8	32	20	AAV82882	ubiquitin conjugate	
C 40	12.2	67.8	33	17	AAT3706	placental phospholipase	
C 41	12.2	67.8	33	18	AAT85136	Primer used for amplification	
C 42	12.2	67.8	33	18	AAT78823	Human ubiquitin conjugate	
C 43	12.2	67.8	33	20	AAZ25315	5' PCR primer used	
C 44	12.2	67.8	33	20	AAV82876	Primer for amplification	
C 45	12.2	67.8	34	21	AAA53534		

ALIGNMENTS

RESULT	1	
AAAX36573/c	1	
ID	1	
AAAX36573 standard; DNA; 35 BP.	1	
AAAX36573:	1	
07-JUL-1999 (first entry)	1	
PCR primer for human EDG-1 coding sequence.	1	
EDG-1; EDG-2; EDG-3; EDG-4; EDG-5; PSF-24; human; detection; therapy;	1	
Inverse agonist; allosteric modulator; lysophosphatidic acid receptor;	1	
LPA signalling mediated disease; cellular apoptosis; PCR primer; ss.	1	
Synthetic.	1	
Home sapiens	1	
MO9919513-A2	1	
22-APR-1999.	1	
09-OCT-1998; 98WO-US21315.	1	
10-OCT-1997; 97US-0061572.	1	
(LXRB-) LXR BIOTECHNOLOGY INC.	1	
Erikson J, Goddard JG, Kiefer M;	1	
WPI; 1999-277658/23.	1	
Identification of (ant)agonists of LPA receptor EDG-2 for, e.g.	1	
treating LPA signalling mediated diseases such as cellular apoptosis	1	